SECTION 18

UTILITY SPACES

18.1 REFERENCES

(Not Used)

18.2 INTRODUCTION

This Section contains the Contractor Design and Provide general requirements for Utility Spaces throughout the Vessel as specified herein. Quantities and locations of spaces shall be at least as outlined in Section 1B of the Technical Specification, in all other Sections of the Technical Specification cited below, and this Section.

For WSF Fleet-wide Standardization purposes, End No. 1 of the Vessel shall always be considered the bow, and this designation shall delineate port and starboard, fore and aft wherever they are addressed in the Technical Specification.

18.3 GENERAL

The Contractor shall design and provide all stowage as specified herein.

Doors to Utility Spaces are specified in Section 4 of this Technical Specification.

Deck coverings are specified in Section 6 of this Technical Specification.

Lifejacket lockers, and other lockers for emergency gear and lifesaving equipment are described in Sections 13 and 16 of the Technical Specification.

Painting and surface preparation shall be as specified in Section 14 of the Technical Specification.

Stowage for food service is described in Section 17 of the Technical Specification.

Requirements for Engineer's Stores spaces below the Lower Vehicle Deck are described in Section 80 of the Technical Specification.

Unless specified herein, all utility spaces shall be fitted with shelving, racks, hooks, tie-downs and other equipment as necessary to fully outfit spaces for the service intended.

Shelving and racks shall be constructed of 16 USSG galvanized steel. The shelf backs and ends shall be turned up 2 inches and hemmed down 1¼ inches. The front edges shall be turned up ¾ inch, hemmed down 1½ inches and broken back to 90 degrees for ½ inch. The shelves shall be supported on steel brackets. Shelving shall be arranged to provide maximum use of the space with shelves spaced for maximum stowage of items. At least 32 inches shall be provided between shelving for aisle space.

Shelving, bins, racks, etc., shall be arranged to suit the material and equipment to be stowed and shall have scantlings sized to support the loads imposed.

Shelving units shall be bolted to the support structure.

Workbenches shall have 7.65# steel plate tops with the backs flanged up 6 inches and the fronts flanged down 2 inches. Workbenches shall have galvanized angle frames. Hardwood tops shall be 1½ inch finished thickness, sanded and coated.

18.4 LINE STOWAGE LOCKER

A steel workbench shall be provided in the Line Stowage Locker. The workbench shall be 60 inches long × 36 inches wide, and fit with a combination pipe/machinist bench vise, six

(6) inch jaw width with ¼ inch through six (6) inch pipe capacity. Maximum vise jaw opening shall be nine (9) inches, with swivel base, WILTON Model C-3, or equal., two (2) tool drawers, and one (1) full width and depth lower shelf 6 inches above the deck. The bench top shall be a minimum of 11 USSG galvanized steel, and the shelf shall be a minimum of 16 USSG galvanized steel with proper steel support structure. The bench top and shelf backs and ends shall be turned up 2 inches and hemmed down 1¼ inches.

A sheet metal tool locker of approximately 48 inches wide × 36 inch deep × 7 feet high dimensions shall be provided in the space. The locker shall have three (3) fixed shelves suitable for holding one hundred (100) pounds of tools on each shelf and doors fitted with staple and hasp.

Provide three (3) bulkhead brackets, each capable of storing 100 feet of wet braided nylon line, ten (10) inches in circumference.

Provide removable fiberglass gratings of an appropriate size to cover the deck. See Section 6 of the Technical Specification.

18.5 EMERGENCY TOWING BRIDLE STOWAGE

Provide one (1) WSF Standardized Fleet-wide Emergency Towing Bridle and equipment as set forth in Section 10 of the Technical Specification. The bridle and equipment shall be stored in a Tow Bridle Stowage Room on the Lower Vehicle Deck.

Provide and install hooks in the overhead of the stowage. Hooks shall be of size and quantity to accommodate the physical size and weight to be hung from them, and as set forth in the *EMERGENCY TOWING BRIDLE* Subsection in Section 10 of the Technical Specification.

Provide removable fiberglass gratings of an appropriate size to cover the deck. See Section 6 of the Technical Specification.

18.6 PAINT LOCKER

Provide for the Paint Locker: three (3) shelves, the lower shelf to clear 5-gallon paint cans, the other shelves for 1-gallon thinner cans, and a paint brush hanging rack.

The Paint locker shall be fitted with a Hi-Fog high pressure water mist fire suppression system as specified in Section 13 of the Technical Specification.

18.7 FIREFIGHTING FOAM STORAGE/GEAR LOCKERS

Provide one (1) storage rack in each of the two (2) Firefighting Foam Storage/Gear Lockers (one (1) at each End of the Vessel under a UVD ramp) on the Lower Vehicle Deck to accommodate six (6) 5-gallon firefighting foam buckets (each rack) provided in Section 13 of the Technical Specification. Storage shall be designed to keep buckets off the deck and

shall secure individual buckets in place. Bucket securing shall be quick release for emergency use and shall require no tools to accomplish.

Provide brackets to secure one (1) foam application nozzle provided in Section 13 of the Technical Specification in each locker.

Provide two (2) 16 USSG galvanized steel shelves, 18 inches deep × 72 inches long. Locate the shelves at 36 and 51 inches above the deck. The shelf backs and ends shall be turned up 2 inches and hemmed down 1¼ inches. The front edges shall be turned up ¾ inch, hemmed down 1½ inches and broken back to 90 degrees for ½ inch. The shelves shall be supported on steel brackets. Dimensions noted should be adjusted to space available in the individual locker.

Provide removable fiberglass gratings of an appropriate size to cover the entire deck. See Section 6 of the Technical Specification.

18.8 DECK GEAR LOCKERS

Provide two (2) 16 USSG galvanized steel shelves, 12 inches deep. Locate the shelves at 36 and 51 inches above the deck. The shelf backs and ends shall be turned up 2 inches and hemmed down 1¼ inches. The front edges shall be turned up ¾ inch, hemmed down 1½ inches and broken back to 90 degrees for ½ inch. The shelves shall be supported on steel brackets. Dimensions noted should be adjusted to space available in the individual locker.

Provide removable fiberglass gratings of an appropriate size to cover the entire deck. See Section 6 of the Technical Specification.

18.9 FUELING EQUIPMENT LOCKER

Provide two (2) 16 USSG galvanized steel shelves, 12 inches deep. Locate the shelves at 36 and 51 inches above the deck. The shelf backs and ends shall be turned up 2 inches and hemmed down 1¼ inches. The front edges shall be turned up ¾ inch, hemmed down 1½ inches and broken back to 90 degrees for ½ inch. The shelves shall be supported on steel brackets. Dimensions noted should be adjusted to space available in the individual locker.

Provide removable fiberglass gratings of an appropriate size to cover the deck. See Section 6 of the Technical Specification.

18.10 CLEANING GEAR LOCKERS

Cleaning gear lockers shall be provided typically in or adjacent to the public restrooms and throughout the Vessel with three (3) shelves, 12 inches deep. The shelves shall be located at approximately 36, 60, and 75 inches above the deck. The shelf backs and ends shall be

turned up two (2) inches and hemmed down 1¼ inches. The front edges shall be turned up ¾ inch, hemmed down 1½ inches and broken back to 90 degrees for ½ inch. The shelves shall be supported on steel brackets. Dimensions noted should be adjusted to space available in the individual locker.

A mop service basin and equipment shall be provided as specified in Section 20 of the Technical Specification.

18.11 LINEN LOCKER

A clean linen locker shall be provided in the Crew accommodation block area. The locker shall have six (6) "WHITE" painted steel shelves 18 inches deep spaced 12 inches apart starting 18 inches above the deck. Provide a "WHITE" painted, galvanized steel lining behind the shelves as a backstop.

18.12 EMERGENCY SQUAD LOCKERS

Provide stowage for all equipment required by 46 CFR §77.30, and/or specified in this Section, Sections 13 and 19 of the Technical Specification, and as follows:

1. Four (4) 16 USSG galvanized steel shelves on the forward bulkhead, approximately 24 inches × 36 inches. The shelf backs and ends shall be turned up 2 inches and hemmed down 1¼ inches. The front edges shall be turned up ¾ inch, hemmed down 1½ inches and broken back to 90 degrees for ½ inch. The shelves shall be supported on steel brackets. Dimensions noted should be adjusted to space available in the individual locker.
2. Eight (8) coat hooks for hanging complete sets of bunker gear.
3. Wall mount brackets for one (1) AFFF portable foam inductor nozzle assembly as directed by the WSF Representative. See the *Firefighting Foam System* Subsection in Section 13 of the Technical Specification.
4. Wall mount brackets for all fire axes and fire extinguishers in locations as directed by the WSF Representative.

18.13 LOWER DECK ENGINEER'S STORAGE

The Engineer's Storage area(s) shall be provided with bays of 4-tier adjustable steel shelves. Provide 16 USSG galvanized steel shelves, 12 inches deep. The shelf backs and ends shall be turned up 2 inches and hemmed down 1¼ inches. The front edges shall be turned up ¾ inch, hemmed down 1½ inches and broken back to 90 degrees for ½ inch. The shelves shall be supported on steel brackets. Dimensions noted should be adjusted to space available in the individual locker.

Provide removable fiberglass gratings of an appropriate size to cover the deck. See Section 6 of the Technical Specification.

18.14 BICYCLE STOWAGE AND RACKS

Tie down stations for in-transit storing at least thirty (30) bicycles shall be provided at each End of the Vessel, utilizing both the port and starboard quarters of the Upper Vehicle Deck curtain plate and ramp hand railing areas to the Upper Vehicle Deck, and inboard ramp bulkheads at the Lower Vehicle Deck. Each station shall consist of an eye bolt (square shoulder rod end type) or staple welded to structure or railing with a length of "YELLOW" ⅜ inch polypropylene hollow diamond braided line permanently attached and of sufficient length to tie the bicycle securely. The stations shall be spaced so as to provide storage without overlapping the bicycles. The precise location of the stations with their bicycles shall not interfere with vehicle loading/unloading operations in any Port.

Arrangement of the stations shall be approved by the WSF Representative prior to fabrication.

18.15 SPARE PARTS AND INSTRUCTION MANUALS

Provide a list of recommended spare parts and special tools for those items which are Contractor furnished, together with parts lists and instruction manuals necessary to maintain and service provided equipment and accessories in accordance with the requirements of Sections 86 and 100 of the Technical Specifications.

18.16 TESTS, TRIALS AND INSPECTIONS

Tests and/or trials shall be in accordance with Section 101 of the Technical Specification.

Inspections shall be performed as defined in this Section and in Sections 1 and 2 of the Technical Specification.

18.17 PHASE II TECHNICAL PROPOSAL REQUIREMENTS

The following deliverable, in addition to other deliverables required by Section 100 of the Technical Specification and the Authoritative Agencies, shall be provided during the Phase II Technical Proposal stage of Work in accordance with the requirements of Section 100 of the Technical Specification:

A. Utility Space Layout/Schedule

See Section 100 of the Technical Specification for requirements regarding technical documentation.

18.18 PHASE III DETAIL DESIGN AND CONSTRUCTION REQUIREMENTS

The deliverables required by Section 100 of the Technical Specification and the Authoritative Agencies, shall be provided during the Phase III Detail Design stage of Work in accordance with the requirements of Section 100 of the Technical Specification.

See Section 100 of the Technical Specification for additional requirements regarding technical documentation.

(END OF SECTION)